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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/090,510	Ī	03/04/2002	Philip J. Mott	BW-DKT00080A	6034
32175	7590	11/04/2003	•	EXAM	INER
BORGWA			VAN PELT, BRADLEY J		
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		MI 48326-1782	3682		
				DATE MAILED: 11/04/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

### Office Action Summary The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			Application No.	Applicant(s)					
Bradley J Van Pett 3692 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. If the period for reply specified above is been than thirty (30) stays, a very within the distinctory minimum of thirty (30) stays value to considered freely. If the period for reply specified shows the mainternations provided value grad will expans 35 (MoXHYS from the mailing date of the communication of the communication of the period for reply specified shows the mainternation provided value grad will expans 35 (MoXHYS from the mailing date of the communication of th	•		10/090,510	MOTT ET AL.					
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THE MAILING DATE OF THIS COMMUNICATION. Extensions of ime may be available under the provisions of 37 CPR. 1 35(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. It is provided to reply is specified above, the maximum statistory period with pay the will be provided by the maximum that statistory period will be pay to will be provided by the maximum that statistory period will be pay to will be pay to the marking date of this communication. Failure to reply visibility that than three maining date of this communication, even if timely filed, may reduce any statistics and the statistic present will be pay that will be pay the marking date of this communication, even if timely filed, may reduce any statistics. Status **Status** 1) **Exponsive to communication(s) filled on 16 September 2003.** 2a) **Exponsive to communication(s) filled on 16 September 2003.** 2a) **Exponsive to communication(s) filled on 16 September 2003.** 2a) **Exponsive to communication(s) filled on 16 September 2003.** 1) **Exponsive to communication is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) **Exponsive to Claims(s) 1-Z is/are pending in the application. 4) **Exponsive to Claims(s) 1-Z is/are allowed.** 6) **Claims(s) 1-Z is/are allowed.** 6) **Claims(s) 1-Z is/are allowed.** 6) **Claims(s) 1-Z is/are allowed.** 10) **The drawing(s) filled on 1-Is/are allowed.** 10) **The drawing(s) filed on 1-Is/are allowed.** 10) **The drawing(s) filed on 1-Is/are allowed.** 11) **The proposed drawing correction filled on 1-Is/are allowed.** 12) **The drawing(s) filed on 1-Is/are allowed.** 13) **Application from the application to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) **The proposed drawings correction filled on 1-Is/are allowed.** 12) **Exponsional transition of the foreign transition									
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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 2, 5, 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over McIntosh (USPN 4,4042,676) in view of Wigsten (USPN 6,500,084).

McIntosh discloses a chain for transmission of power from a driving sprocket having teeth to a driven sprocket having teeth comprising: a) a plurality of sprocket-engaged blocks (18) having a body with sides and a thickness therebetween, an upper surface and teeth opposite the upper surface, adapted to engage with the teeth of the driving sprocket and the teeth of the driven sprocket; b) a plurality of guide links (22), each guide link having a body with a thickness, a top surface, a bottom surface, a leading end and a trailing end; each guide link being movably fastened in pairs on opposite sides of the sprocket-engaging blocks to two adjoining sprocket engaging blocks, the guide links being dimensioned so that when the guide links and sprocket-engaging blocks are assembled, the top surfaces of the guide links project further than the top surfaces of the sprocket-engaging blocks, forming rails defining a trough therebetween; all of the guide links and sprocket-engaging blocks fastened together forming a continuous chain; and c) a retaining band (30) running around the chain in the trough, contacting the upper surface of the sprocket engaging blocks; so that when the chain is engaged with the driven sprocket and the

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driving sprocket, and rotational force is applied to the driven sprocket, the force is transferred by the teeth of the driving sprocket to the sprocket-engaging blocks engaged with the driving sprocket, then to the guide links fastened to the sprocket-engaging blocks, and the leading edge of each guide link between the driving sprocket and the driven sprocket transfers force to the railing end of the next guide link, until the force is transferred to the sprocket-engaging blocks engaged with the driven sprocket, and thence as a rotational force to the driven sprocket;

the guide links are fastened together around the sprocket-engaging blocks by pins (column 2 line 7) running through holes in the guide links and the sprocket-engaging blocks; the retaining band is made of a polymer (see column 2, line 28); the guide link comprises a tapered area forming a lower part of the leading end and trailing end (see fig. 3), to provide clearance as the chain wraps around the sprockets.

McIntosh does not disclose the leading end of a guide link contacts the trailing end of an adjoining link or the leading end and trailing end of the guide links are substantially flat.

Wigsten shows the leading end of a guide link contacts the trailing end of an adjoining link and the leading end and trailing end of the guide links are substantially flat (see fig. 2).

To modify the apparatus of McIntosh so as to provide flat contacting guide links would have been obvious to one of ordinary skill in the art at the time the invention was made in view of the teachings of Wigsten that such an arrangement decreases the kinking of the chain.

3. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over McIntosh in view of Wigsten, as applied to claims 1, 2, 5, and 7, further in view of Henderson (USPN 4,595,385).

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The above reference combination shows all of the instantly claimed invention, except a plurality of pins running between the pairs of guide links in the trough, retaining the band therein.

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Henderson shows disclose a leading end of a guide link contacts the trailing end of an adjoining link a plurality of pins (67) running between the pairs of guide links (ends are considered guide links) in a trough (area between), retaining a band (34) therein.

To modify the above reference combination so as to provide pins between pairs of guides links would have been obvious to one of ordinary skill in the art at the time the invention was made in view of the teachings of Henderson that such an arrangement improves the retaining characteristics of the band within the chain (see column 6, lines 43-45 of Henderson).

4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over McIntosh in view of Wigston, as applied to claims 1, 2, 5, and 7, further in view of Mott (USPN 5,993,345).

McIntosh discloses a steel band (see column 2, line 27); however fails to show the retaining band comprises a plurality of laminations of steel band.

Mott shows a retaining band (106) comprises a plurality of laminations of steel band.

To modify the above reference combination so as to include laminations of a steel band would have been obvious to one of ordinary skill in the art at the time the invention was made in view of the teachings of Mott that such an arrangement improves loading properties of the chain.

Response to Arguments

5. Applicant's arguments filed September 16, 2003 have been fully considered but they are not persuasive. Applicant argues the McIntosh reference transfers force by the driving sprocket pull on the chain, unlike the instant invention, which transfers the force by the driving sprocket

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push on the chain that is by compression of the guide links. It is unclear from the disclosure of McIntosh whether or not the links in between the outer links (22) and the inner links (18) abut against each other during operation of the chain. If this were the case, the functionality would be the same as the instant invention. However, this has been clarified with the addition of Wigston.

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Next the applicant argues Henderson cannot be combined to make the instant invention. Henderson clearly illustrates that it is well known in the art to use pins to hold a flexible belt in position. The applicant's argument with respect to Mott is moot in the grounds of the new rejection.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley J Van Pelt whose telephone number is 703.305.8176. The examiner can normally be reached on M-Th 7:00-4:30, 2nd F 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A Bucci can be reached on 703.308.3668. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703.308.2168.

BJVP

SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 3600**